

Notice of Allowability	Application No.	Applicant(s)	
	10/029,581	YUN ET AL.	
	Examiner	Art Unit	
	AJIT G. PATEL	2616	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 12/20/2001.
2. ☒ The allowed claim(s) is/are 1; 3-16, 18-30 renumbered 2-28 respectively.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).


Ajit Patel
Primary Examiner

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| <ol style="list-style-type: none"> 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material | <ol style="list-style-type: none"> 5. <input type="checkbox"/> Notice of Informal Patent Application 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____ 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance 9. <input type="checkbox"/> Other _____ |
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1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr.G. Maliszewski on 2/6/08.

2. The application has been amended as follows: The claims are amended as follows:

1. (currently amended)A method for distributing bid grants to access switch outputs in the switching of information, the method comprising:
at each switch input, accepting information packets addressing a plurality of switch outputs;
channeling the information packets into a plurality of channels;
in response to bid submissions for selected ~~from the~~ switch inputs, receiving bid grants accessing switch outputs, ~~for selected switch inputs~~; and,
for each selected switch input, selecting channels to accept the bid grants as follows:

for each selected switch input, determining the available channels having information packets addressed to the bid grant switch outputs; and,
distributing bid grants in response to the available channels.

2. canceled

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3. (currently amended) The method of claim [[2]] 1 further comprising:

supplying up to a first plurality of bid grants accessing each switch output, for distribution among available channels in selected switch inputs; and,
wherein receiving bid grants accessing switch outputs includes the selected switch inputs receiving up to a first plurality of bid grants accessing each switch output.

4. (currently amended) A method for distributing bid grants to access switch outputs in the switching of information, the method comprising:

for each of a second plurality of switch inputs, accepting information packets addressing a second plurality of switch outputs;

supplying a first plurality of switch crossbars, each including a plurality of parallel routed switch inputs and a plurality of parallel routed switch outputs to transfer information packets to switch outputs;

channeling the information packets into a third plurality of channels;

in response to bid submission for selected ~~from the~~ switch inputs, supplying up to a first plurality of bid grants accessing each switch output, for distribution among available channels ~~in selected switch inputs~~;

for selected switch inputs, receiving bid grants accessing switch outputs;

for each selected switch input, determining the available channels having information packet addressed to the bid grant switch outputs; and,

distributing bid grants in response to the number of available channels, where selected switch inputs receive up to a first plurality of bid grants accessing each switch output.

9. (currently amended) A method for distributing bid grants to access switch outputs in the switching of information, the method comprising:

- at each of a second plurality of switch inputs, accepting information packets addressing a second plurality of switch outputs;
- supplying a first plurality of switch crossbars, each including a plurality of parallel routed switch inputs and a plurality of parallel routed switch outputs to transfer information packets to switch outputs;
- channeling the information packets into a third plurality of channels;
- in each channel, queuing information packets by switch output, in up to a second plurality of queues per channel;
- in response to bid submissions for selected ~~from the~~ switch inputs, supplying up to one bid grant for each crossbar accessing each switch output, for distribution among available channels ~~in selected switch inputs~~;
- for selected switch inputs, receiving bid grants accessing specified switch outputs, through specified crossbars;
- for each selected switch input, determining available channels having information packets addressed to the bid grant switch outputs;
- establishing an ordered channel priority list for each specified switch output; and,
- distributing bid grants in response to the available channels, where least recently used available channels are selected for the specified switch outputs in response to the channel priority list in at least one grant cycle per decision cycle.

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16. (currently amended) A system for distributing switch output access bid grants in the transfer of information across a switch, the system comprising:

a channel assembler having a plurality of inputs, where each input accepts information packets addressing a plurality of switch outputs, the channel assembler channeling the information packets received at each input into a plurality of channels, and supplying the channelized information packets at a plurality of outputs, the channel assembler also having a channel status output to communicate the contents of each channel; and,

a grant arbiter having an input connected to the channel assembler channel status output and an input to receive bid grants accessing switch outputs for selected channel assembler outputs, the grant arbiter selecting channels to accept the bid grants in each selected channel assembler output by determining the number of available channels in each selected channel assembler output, with information packet addresses matching the bid grant switch outputs, and distributing bid grants in response to the number of available channels.

17. canceled

18. (currently amended) The system of claim ~~[[17]]~~ 16 wherein the grant arbiter accepts up to a first plurality of bid grants accessing each switch output for distribution across each of the channel assembler outputs.

3. The following is an examiner's statement of reasons for allowance: The prior art of the record fails to disclose channeling the information packets into a plurality of channels;

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in response to bid submissions for selected switch inputs, receiving bid grants accessing switch outputs and,

for each selected switch input, selecting channels to accept the bid grants as follows:

for each selected switch input, determining the available channels having information packets addressed to the bid grant switch outputs; and,

distributing bid grants in response to the available channels as in claims 1, 4, 9, 16 and 21.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to AJIT G. PATEL whose telephone number is 571-272-3140. The examiner can normally be reached on MONDAY- FRIDAY.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynn Feild can be reached on 571-272-2092. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

AP


Ajit Patel
Primary Examiner